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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/777,755	02/06/2001	Nigel Peter Topham	0808.65202	4475	
24978 759	90 10/28/2003		EXAMINER		
GREER, BURNS & CRAIN			KIM, KENNETH S		
300 S WACKEI 25TH FLOOR	R DR		ART UNIT	PAPER NUMBER	
CHICAGO, IL	60606		2181		
			DATE MAILED: 10/28/2003	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Applicati n N .	Applicant(s)	3
		09/777,755 TOPHAM, NIGEL		ETER
	Office Action Summary	Examin r	Art Unit	
		Kenneth S KIM	2181	
Period fo	The MAILING DATE f this communication app or Reply	pears on the c ver sheet wit	th th correspondenc addre	ess
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MON ³ to cause the application to become AB.	pply be timely filed (30) days will be considered timely. HS from the mailing date of this commandone (35 U.S.C. & 133)	nunication.
1)	Responsive to communication(s) filed on 06 F	February 2001		
2a)[is action is non-final.		
3)	Since this application is in condition for allowa		tore proposition as to the	marita ia
• • • • • • • • • • • • • • • • • • • •	closed in accordance with the practice under ion of Claims	Ex parte Quayle, 1935 C.E). 11, 453 O.G. 213.	nents is
·	Claim(s) 1-28 is/are pending in the application) .		\wedge
	4a) Of the above claim(s) is/are withdraw			<i>')</i>
5)	Claim(s) is/are allowed.			V
6)[Claim(s) is/are rejected.		1 GA	
7)	Claim(s) is/are objected to.		KENNETH S. KIM	
8)⊠	Claim(s) 1-28 are subject to restriction and/or	election requirement.	PRIMARY EXAMINER	
Applicati	ion Papers			
9)[The specification is objected to by the Examine	r.		
10)[The drawing(s) filed on is/are: a)□ accep	oted or b) objected to by th	e Examiner.	
_	Applicant may not request that any objection to the		• •	
11)	The proposed drawing correction filed on	_ is: a)☐ approved b)☐ di	sapproved by the Examiner.	
_	If approved, corrected drawings are required in rep	•		
	The oath or declaration is objected to by the Ex	aminer.		
Priority ι	under 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)[☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority documents	s have been received.	•	
	2. Certified copies of the priority documents	s have been received in Ap	plication No	
* 0	3. Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		age
	acknowledgment is made of a claim for domestic	·		anlination)
) \square The translation of the foreign language pro		• • • • •	plication).
	Acknowledgment is made of a claim for domesti			
Attachmen			,	
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s). formal Patent Application (PTO-1	
			•	

Application/Control Number: 09/777,755

Art Unit: 2181

Claims 1-28 are presented for examination.
 Applicant is reminded that claims 26-29 have been renumbered to claims 25-28.

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-25 and 28, drawn to an apparatus for assigning sequence numbers to values produced in the order of issuance of the value producing instructions, classified in class 712, subclass 214.
 - II. Claims 26 and 27, drawn to an apparatus for allocating registers to values produced, renaming registers when software pipeline boundary is crossed, and skipping allocation when zero iteration loop is found, classified in class 712, subclass 241.
- 3. The inventions are distinct, each from the other because of the following reasons: Inventions of group I and group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the invention of group I can be used in a system without the register renaming when software boundary is crossed. The subcombination has separate utility such as use in a system without the sequence number assigning.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and the search required for one group is not required for the other group, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth S KIM whose telephone number is (703) 305-9693. The examiner can normally be reached on M-F (8:30-17:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

October 14, 2003

PRIMARY EXAMINER